

## Criterion B Prac on Trig

### Level 1-2

Without using the calculator, evaluate the followings

$\tan(30^\circ + 45^\circ)$	$\frac{\tan 30^\circ + \tan 45^\circ}{1 - \tan 30^\circ \tan 45^\circ}$
$\tan(60^\circ + 45^\circ)$	$\frac{\tan 60^\circ + \tan 45^\circ}{1 - \tan 60^\circ \tan 45^\circ}$
$\tan(30^\circ + 90^\circ)$	$\frac{\tan 30^\circ + \tan 90^\circ}{1 - \tan 30^\circ \tan 90^\circ}$

### Level 3-4

Organize your answers from the above.

Describe the pattern you see.

### Level 5-6

Suggest your pattern with a general formula

### Level 7-8

Prove your general formula.